

WHAT IS CLAIMED IS:

1. A fluid delivery system comprising:
a control unit comprising one or more devices for controlling a fluid injection;
a syringe comprising a body and a plunger movably disposed within the body; and
at least one syringe interface module separate from but in communication with the control unit, the at least one syringe interface module comprising a module housing, a syringe interface on the module housing that is adapted to connect the syringe to the module housing, and a drive member operable to advance the plunger of the syringe.
2. The fluid delivery system of Claim 1, further comprising a motor disposed within the module housing and operably connected to the drive member.
3. The fluid delivery system of Claim 2, further comprising a power source operably connected to the motor.
4. The fluid delivery system of Claim 1, further comprising a support device for supporting the at least one syringe interface module.
5. The fluid delivery system of Claim 1, further comprising a remote control in communication with the control unit.
6. The fluid delivery system of Claim 5 wherein the remote control comprises one or more devices for controlling the fluid injection.
7. The fluid delivery system of Claim 1 wherein the at least one syringe interface module further comprises one or more devices for controlling the drive member.

8. The fluid delivery system of Claim 1 wherein the at least one syringe interface module is in communication with the control unit via a communication line.

9. The fluid delivery system of Claim 1 wherein the at least one syringe interface module is in communication with the control unit via a wireless connection.

10. The fluid delivery system of Claim 1 wherein the at least one syringe interface module comprises two syringe interface modules.

11. The fluid delivery system of Claim 1 wherein the at least one syringe interface module is adapted to be lain next to a patient.

12. The fluid delivery system of Claim 1 wherein the at least one syringe interface module is adapted to be placed in any suitable position or orientation regardless of the position or orientation of the control unit.

13. The fluid delivery system of Claim 1 wherein the control unit comprises a control unit housing and control circuitry disposed within the control unit housing.

14. The fluid delivery system of Claim 13, further comprising a motor disposed within the module housing, operably connected to the drive member and in communication with the control circuitry.

15. The fluid delivery system of Claim 14, further comprising a power source operably connected to the motor.

16. The fluid delivery system of Claim 15 wherein the control circuitry supplies control signals to the motor.

17. The fluid delivery system of Claim 16 wherein the power source comprises a battery.

18. The fluid delivery system of Claim 1 wherein the one or more devices on the control unit comprises one or more switches.

19. A fluid delivery system comprising:
a control unit comprising control circuitry and one or more devices for controlling a fluid injection;
a syringe comprising a body and a plunger movably disposed within the body;
at least one syringe interface module separate from but in communication with the control unit via a communication line, the at least one syringe interface module comprising a module housing, a syringe interface on the module housing that is adapted to connect the syringe to the module housing, a drive member operable to advance the plunger of the syringe, and one or more devices for controlling the drive member; and
a support device for supporting the at least one syringe interface module.

20. The fluid delivery system of Claim 19, further comprising a motor disposed within the module housing and operably connected to the drive member.

21. The fluid delivery system of Claim 20, further comprising a power source operably connected to the motor.

22. The fluid delivery system of Claim 19, further comprising a remote control in communication with the control unit.

23. The fluid delivery system of Claim 22 wherein the remote control comprises one or more devices for controlling the fluid injection.

24. The fluid delivery system of Claim 19 wherein the at least one syringe interface module comprises two syringe interface modules.

25. The fluid delivery system of Claim 19 wherein the at least one syringe interface module is adapted to be lain next to a patient.

26. The fluid delivery system of Claim 19 wherein the at least one syringe interface module is adapted to be placed in any suitable position or orientation regardless of the position or orientation of the control unit.

27. The fluid delivery system of Claim 19, further comprising a motor disposed within the module housing, operably connected to the drive member and in communication with the control circuitry.

28. The fluid delivery system of Claim 27, further comprising a power source operably connected to the motor.

29. The fluid delivery system of Claim 27 wherein the control circuitry supplies control signals to the motor.

30. The fluid delivery system of Claim 19 wherein the one or more devices on the control unit comprises one or more switches.

31. A fluid delivery system comprising:
a control unit comprising control circuitry and one or more devices for controlling a fluid injection;
a syringe comprising a body and a plunger movably disposed within the

body;

at least one syringe interface module separate from but in communication with the control unit via a communication line, the at least one syringe interface module comprising a module housing, a syringe interface on the module housing that is adapted to connect the syringe to the module housing, a drive member operable to advance the plunger of the syringe, and one or more devices for controlling the drive member;

a support device for supporting the at least one syringe interface module;

a motor operably connected to the drive member; and

a power source operably connected to the motor.

32. The fluid delivery system of Claim 31 wherein the motor is disposed within module housing and is in communication with the control circuitry.

33. The fluid delivery system of Claim 31 wherein the motor is operably connected to the drive member via a flexible shaft.

34. The fluid delivery system of Claim 31, further comprising a remote control in communication with the control unit.

35. The fluid delivery system of Claim 31 wherein the at least one syringe interface module comprises two syringe interface modules.

36. The fluid delivery system of Claim 31 wherein the at least one syringe interface module is adapted to be lain next to a patient.

37. The fluid delivery system of Claim 31 wherein the at least one syringe interface module is adapted to be placed in any suitable position or orientation regardless of the position or orientation of the control unit.

38. The fluid delivery system of Claim 31 wherein the one or more

devices on the control unit comprises one or more switches.

39. The fluid delivery system of Claim 31 wherein the power source is a battery.

40. The fluid delivery system of Claim 1 wherein the at least one syringe interface module is physically separate from the control unit.

41. The fluid delivery system of Claim 19 wherein the at least one syringe interface module is physically separate from the control unit.

42. The fluid delivery system of Claim 31 wherein the at least one syringe interface module is physically separate from the control unit.